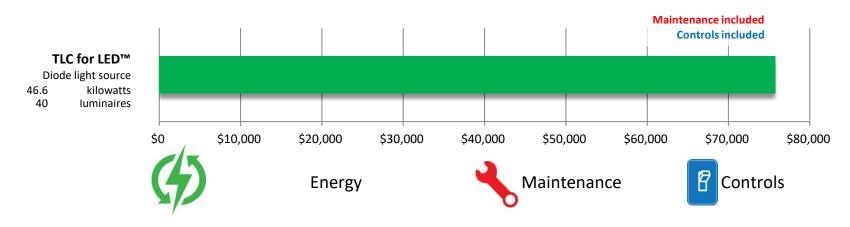
25-Year Cost of Ownership

WHS Stadium

Prepared For:

Jay McHale August 31, 2021



How is this possible? Musco's 40 years of developing systems, light control, and application expertise puts more available lumens per watt on the field. Our services team provides all on/off operation, monitoring, and maintenance.

Assumptions	Football 50fc	
Annual operating hours		100
Energy:		
Energy cost per kilowatt hour	\$0.10	
Demand charge per kilowatt hour	\$11.00	
Maintenance:		
Group relamp - cost per luminaire	\$266	
Spot maintenance over 25 years	\$3,750	
Controls:		
Labor - turning lights on & off	\$0.00	
Lights on extra time without controls	15%	



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	TLC for LED
kW totals	46.64
Energy totals	\$75,790
Maintenance	0.00
Controls	0.00
Totals	\$75,790
Qty of luminaires	40
CO2	80

kW Totals: 46.64
TLC luminaire totals: 40

Input fields in yellow

Facility name	WHS Stadium
Scoreboard project #	197283
Field description & footcandle levels	Football 50fc
Prepared for	Jay McHale
Energy cost per kWh	\$0.10
Annual operating hours	100

Does the facility have demand charges?	No
Demand charges	11
Months of demand	5

Musco TLC for LED data		Lumen	5,110,400
TLC	TLC for LED™ 1500		
Poletop luminaire quantity	22	160,000	3,520,000
TLC	TLC for LED™ 1200		
Poletop luminaire quantity	6	136,000	816,000
TLC	TLC for LED™ 900		
Poletop luminaire quantity	4	89,600	358,400
TLC	TLC for LED™ 400		
Poletop luminaire quantity	0	46,500	-
TLC	TLC for LED™ RGBW		
Poletop luminaire quantity	0		
BallTracker™ luminaire quantity	8	52,000	416,000
kW demand per luminaire	1.43		
kW demand per luminaire	1.17		
kW demand per luminaire	0.89		
kW demand per luminaire	0.4		
kW demand per luminaire	0.64		
kW demand per BallTracker™ luminaire	0.575		
Total system kW	46.64		
Warranty duration (in years)	25		
Warranty duration (in years)	25		

25-year cost calculations				
	Musco TLC for	r LED		
Energy	\$11,660	\$	466	
Demand charges	\$64,130	\$	2,565	
Energy total	\$75,790	\$	3,032	
Maintenance (relamping & spot)				
Controls				
Total	\$75,790	\$	3,032	
25-Year CO2	80			

Luminaire Technology Information		
	kW Demand	Useful lamp hours
Musco Green Generation 1500-watt	1.564	5000
Musco Green Generation 1000-watt	1.12	12000
Metal halide 1500-watt	1.62	3000
Metal halide 1000-watt	1.08	10000
Quartz 1500-watt	1.5	2000
Quartz 1000-watt	1	2000
MPI 1000-watt	1	2000
HPS 1000-watt	1.07	24000